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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/MM/W.No.17/CSR-02/270n/CEMENT/2017-18 Date: 13.02.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
*** Name of Work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Sample ID**	:	Cement – Sample 1
Sample Received on	:	11.02.2017
Period of Testing	:	11.02.2017 to 13.02.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Technical Manager

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Job No.: CTCE/BBMP/MM/W.No.17/CSR-02/270n/SAND-Gradation/2017-18 13.02.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
*** Name of Work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Sample ID**	:	Fine Aggregates - Sample 1
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	11.02.2017
Date of Testing	:	13.02.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	72.50	60-95	75-100	85-100	95-100
1.18	49.70	30-70	55-90	75-100	90-100
600 Micron	26.30	15-34	35-59	60-79	80-100
300 Micron	13.50	5-20	8-30	12-40	15-50
150 Micron	6.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/MM/W.No.17/CSR-02/270n/AGG/GR/2017-18

13.02.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
*** Name of Work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Sample ID**	:	Coarse Aggregates (40mm) - Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	11.02.2017
Date of Testing	:	13.02.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.32	95-100	85-100
20	42.36	30-70	0-20
10	16.64	10-35	0-5
4.75	4.72	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/MM/W.No.17/CSR-02/270n/AGG/GR/2016-17 13.02.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore –
*** Name of Work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Sample ID**	:	Coarse Aggregates (20mm) - sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	11.02.2017
Date of Testing	:	13.02.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.92	95-100	85-100
10	32.36	25-55	0-20
4.75	5.60	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/MM/W.No.17/Steel/2017-18 15.02.2017

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
*** Name of work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Samples ID**	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

*Information is furnished by the Customer/Representative.

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Note:

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Job No.: CTCE/BBMP/MM/W.No.17/Steel/2017-18

15.02.2017

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
*** Name of work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Samples ID**	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.25	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/MM/W.No.17/Steel/2017-18

15.02.2017

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
*** Name of work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
*** Samples ID**	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	555	13.40	O.K	O.K

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Job No.: CTCE/BBMP/MM/W.No.17/Steel/2017-18

15.02.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
* Name of work	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
* Reference	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	15.02.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	520	562	13.50	O.K	O.K

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Job No.: CTCE/BBMP/MM/W.No.17/CSR-02/270n/CC Solid Block/2017-18

02.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

*** Customer**	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore –
*** Name of Work**	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
*** Reference**	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	28.02.2017
Date of Testing	:	02.03.2017

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	36.52	281.3	3.52	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	34.54	279.6	3.50	
3	Block 3	35.23	281.3	3.52	
4	Block 4	35.26	282.4	3.53	
5	Block 5	34.82	286.2	3.58	
6	Block 6	36.12	282.1	3.53	
7	Block 7	35.47	285.7	3.57	
8	Block 8	36.57	286.2	3.58	

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T-2377

Job No.: CTCE/BBMP/MM/W.No.17/CSR-02/270n/Cube/2017-18

20.03.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yeshwanthpura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. M. Manjunath** #714, MANASIRI, 1st main, 2nd cross, MPM layout, Kengunte, Bangalore – 56.
* Name of the work	:	Construction of gym building near HMT ground (JP park) in Ward No.17, BBMP, Bangalore.
* Reference	:	EE/RRND/Wo. No/104/2015-16 Dated: 16.01.2016
* Sample ID	:	RCC Footing Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.03.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.02.2017	20.03.2017	8.136	489.3	21.75
2	20.02.2017	20.03.2017	8.267	508.4	22.60
3	20.02.2017	20.03.2017	8.318	513.7	22.83

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